



Product Sheet

# *Thermus thermophilus* (ATCC® 27634™)

Please read this FIRST



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Thermus thermophilus* (ATCC® 27634™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** HB8

**Deposited Name:** *Thermus thermophilus* Oshima and Imahori

**Product Description:** Type strain. Used in enzyme studies for phosphoglucomutase, phosphofructokinase, and fructose 1,6-diphosphatase. Resistant to heavy metal ions. Produces thermostable D-xylose isomerase and restriction endonuclease *TthHB8I*. Genome sequenced strain.

## Propagation

### Medium

ATCC® Medium 697: *Thermus* medium

### Growth Conditions

**Temperature:** 70°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.
2. Rehydrate the entire pellet with approximately 0.5 mL of #697 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #697 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
3. Use several drops of the primary broth tube to inoculate a #697 plate and/or #697 agar slant.
4. Incubate at 70°C for 24-48 hours.

## Notes

Bacteriophage may be present in culture. Plaques may be visible on 70°C agar plates. Parafilm or tape agar cultures, plates and kolles, to prevent the agar from drying out. Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Product Sheet

## ***Thermus thermophilus*** **(ATCC® 27634™)**

the misidentification or misrepresentation of such materials.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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